

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State
Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: FAIL-SAFE

Report Number: P554697

Luminaire Tested: **FUSL-12-2-LD4-2HI-35-UNV-81-88-EDD**

Issue Date: 7/16/2021

This test was performed under the Supervised Manufacturer's Testing Program. The results of this test have not been influenced by sources from within Cooper Lighting Solutions or from external interests.



Test Information

Test Method: LM-79-08
Report Number: P554697
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2105-257-2)
Test Lab: INNOVATION CENTER
Issue Date: 7/16/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: FAIL-SAFE
Catalog Number: FUSL-12-2-LD4-2HI-35-UNV-81-88-EDD
Description: 2FT FUSL SURFACE MOUNT WITH .156 CLEAR PC FIXTURE SIDE AND .500 CLEAR PC ENVIRONMENTAL SIDE LENSES WITH, 80 CRI AND 3500K CCT LEDS
Light Source: -
Ballast/Driver: -

Luminaire Equipment: Sample No. Condition Description

Summary

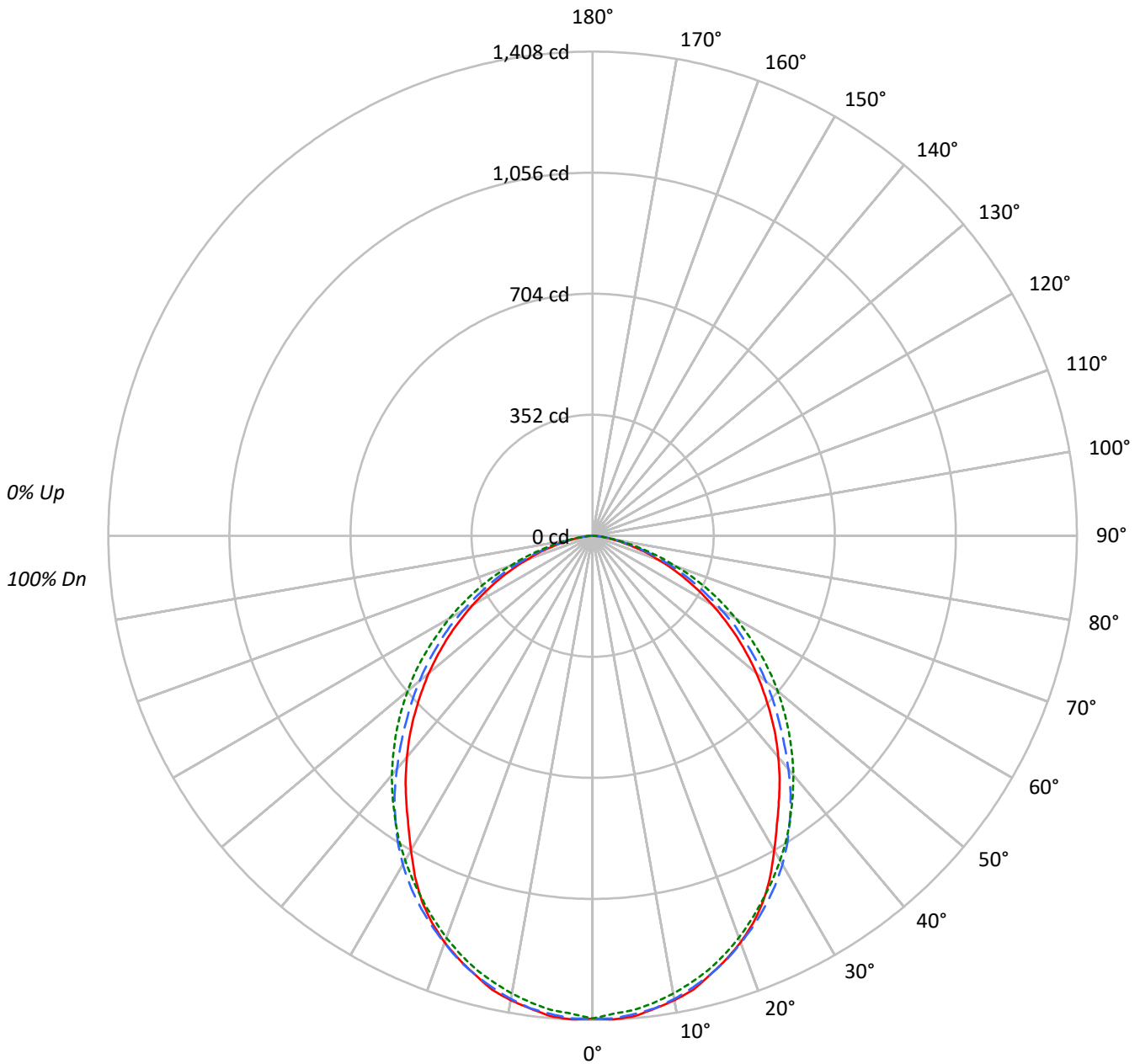
Lumens per Lamp: N/A
Luminaire Lumens: 3246.0 lumens
Efficiency: N/A
Efficacy: 75.1 lumens/watt
Spacing Criteria (0/90/45): 1.13 / 1.16 / 1.26
Luminous Opening: Rectangular (W 1' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 43.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT

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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20									20									20									20									
RC	80									50									30									10									0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0																
RCR																																					
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100																			
1	110	106	102	98	107	103	100	97	99	96	94	95	93	91	92	90	88	86																			
2	101	93	87	82	98	91	86	81	88	83	79	85	81	77	82	78	75	73																			
3	92	83	75	69	90	81	74	68	78	72	67	75	70	66	73	69	65	63																			
4	85	74	65	59	83	72	65	59	70	63	58	68	62	57	65	61	56	54																			
5	78	66	58	51	76	65	57	51	63	56	51	61	55	50	59	54	50	47																			
6	73	60	51	45	71	59	51	45	57	50	45	56	49	44	54	48	44	42																			
7	68	55	46	40	66	54	46	40	52	45	40	51	44	40	49	44	39	37																			
8	63	50	42	36	61	49	41	36	48	41	36	47	40	36	46	40	35	34																			
9	59	46	38	33	58	45	38	33	44	37	32	43	37	32	42	36	32	30																			
10	55	43	35	30	54	42	35	30	41	34	30	40	34	29	39	33	29	28																			

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	7555	7555	7555
5°	7575	7544	7479
10°	7495	7474	7389
15°	7362	7362	7278
20°	7206	7215	7123
25°	6969	7055	6943
30°	6563	6857	6773
35°	6201	6573	6583
40°	5899	6218	6381
45°	5562	5841	6141
50°	5206	5504	5879
55°	4802	5121	5561
60°	4325	4673	5172
65°	3819	4155	4704
70°	3182	3539	3997
75°	2502	2826	3130
80°	1788	1990	2207
85°	1167	1167	1099



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	132.2	4.1
10°-20°	371.3	11.4
20°-30°	542.6	16.7
30°-40°	615.9	19.0
40°-50°	594.6	18.3
50°-60°	490.5	15.1
60°-70°	326.6	10.1
70°-80°	146.2	4.5
80°-90°	26.2	0.8
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	1046.1	32.2
0°-40°	1662.0	51.2
0°-60°	2747.1	84.6
0°-90°	3246.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	3246.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1404	1404	1404	1404	1404	
5°	1402	1402	1396	1389	1384	133
15°	1321	1324	1321	1315	1306	372
25°	1174	1183	1188	1180	1169	537
35°	944	957	1000	1006	1002	591
45°	731	743	767	802	807	564
55°	512	520	546	576	593	457
65°	300	308	326	350	369	297
75°	120	127	136	142	150	132
85°	19	19	19	18	18	25
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1403.8	1403.8	1403.8	1403.8	1403.8
2.5°	1407.6	1408.1	1404.9	1396.3	1390.9
5°	1402.2	1401.7	1396.3	1388.7	1384.4
7.5°	1386.6	1387.6	1386.0	1375.2	1369.3
10°	1371.5	1372.0	1367.7	1359.0	1352.0
12.5°	1352.0	1351.5	1345.6	1341.3	1329.9
15°	1321.3	1324.5	1321.3	1315.4	1306.2
17.5°	1291.6	1291.6	1293.8	1283.5	1276.5
20°	1258.2	1259.8	1259.8	1251.7	1243.6
22.5°	1219.4	1224.2	1225.8	1217.2	1207.5
25°	1173.5	1182.7	1188.1	1179.5	1169.2
27.5°	1118.0	1132.0	1148.2	1141.7	1130.4
30°	1056.0	1076.5	1103.4	1098.0	1089.9
32.5°	997.2	1017.7	1054.9	1052.7	1048.4
35°	943.8	956.7	1000.4	1005.8	1002.0
37.5°	893.1	905.0	945.9	958.3	955.1
40°	839.7	852.6	885.0	907.1	908.2
42.5°	786.8	799.3	825.7	857.5	857.5
45°	730.8	743.2	767.4	802.5	806.8
47.5°	675.7	688.7	712.4	747.5	754.5
50°	621.8	633.7	657.4	691.4	702.2
52.5°	565.7	578.7	601.9	633.1	648.8
55°	511.8	520.4	545.8	576.0	592.7
57.5°	455.7	463.8	492.4	518.3	535.5
60°	401.8	412.0	434.1	460.6	480.5
62.5°	350.0	360.8	379.7	402.9	425.5
65°	299.9	307.9	326.3	349.5	369.4
67.5°	251.3	258.3	276.7	292.8	313.9
70°	202.2	211.4	224.9	240.5	254.0
72.5°	162.9	166.6	178.0	189.3	203.3
75°	120.3	126.7	135.9	142.4	150.5
77.5°	86.3	90.1	95.5	100.9	108.4
80°	57.7	59.3	64.2	65.3	71.2
82.5°	35.1	36.1	37.2	37.8	39.9
85°	18.9	18.9	18.9	17.8	17.8
87.5°	10.8	10.8	9.2	7.6	5.4
90°	0.0	0.0	0.0	0.0	0.0



Report Generated By 670246072 / DESKTOP-MV3F9LC





— 0°-180° - - 45°-225° - - - - 90°-270°







(END OF REPORT)